

1. (Amended) A process for forming a nanosize ceramic powder comprising:
forming a precursor ceramic material comprising a fugitive constituent and a non-soluble constituent in a single phase;

contacting the precursor material with a selective solvent to form a solution of the fugitive constituent in the solvent and a non-dissolved residue of the non-soluble constituent,

the precursor material sufficiently reactive with the solvent to form the solution of the fugitive constituent in the solvent and form the non-dissolved residue of the non-soluble constituent,

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the precursor material and the non-soluble residue sufficiently insoluble in the solvent such that there is essentially no precursor material and non-soluble residue in the solution that will deposit and precipitate upon the residue of the non-soluble-constituent,

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the fugitive constituent being sufficiently soluble in the solvent such that from the solution of the fugitive constituent essentially no fugitive constituent will deposit and precipitate upon the residue of the non-soluble constituent,

removing the solution of the fugitive constituent from the residue to form a nanosize powder of the residue of the non-soluble constituent.

21. (Amended) A process for forming a nanosize metallic powder comprising:
forming a precursor metallic material comprising a fugitive metal constituent and a non-soluble metal constituent in a single phase;

contacting the precursor material with a selective solvent to form a solution of the fugitive constituent and a non-dissolved residue of the non-soluble constituent,

the precursor material sufficiently reactive with the solvent to form the solution of the fugitive constituent in the solvent and form the non-dissolved residue of the non-soluble constituent,

the precursor material and the non-soluble residue sufficiently insoluble in the solvent such that there is essentially no precursor material and non-soluble residue in the solution that will deposit and precipitate upon the residue of the non-soluble-constituent,

the fugitive constituent being sufficiently soluble in the solvent such that from the solution of the fugitive constituent essentially no fugitive constituent will deposit and precipitate upon the residue of the non-soluble constituent,

removing the solution of the fugitive constituent from the residue to form a nanosize powder of the residue of the non-soluble constituent.